
Product Data Sheet

Product Name: RCAN3 Human

Cat. No.: GP24357

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DSCR1L2; hRCN3; MCIP3; RCN3; Calcipressin-3; Down syndrome candidate region 1-like protein 2; Myocyte-enriched calcineurin-interacting protein 3; Regulator of calcineurin 3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEAVFEAR EQKERFEALF TIYDDQVTFQ LFKSFRRVRI NFSKPEAAAR ARIELHETDF NGQKLKLYFA QVQMSGEVRD KSYLLPPQPV KQFLISPPAS PPVGWKQSED AMPVINYDLL CAVSKLGPGE KYELHAGTES TPSVVVHVCE SETEEEEETK NPKQKIAQTR RPDPTAALN EPQTFDCAL.		
Formulation	The RCAN3 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea, 20% glycerol and 0.2M NaCl.		

Introduction

Calcipressin-3 (RCAN3) takes part in central nervous system development. RCAN3 inhibits calcineurin-dependent transcriptional responses by binding to the catalytic domain of calcineurin A. Overexpression of calcipressin-3 results in inhibition of calcineurin activity towards the nuclear factor of activated T-cells (NFAT) transcription factors and also downregulates NFAT-dependent cytokine gene expression in activated Jurkat T-cells. Highest expression takes place s in heart, skeletal muscle kidney, liver and peripheral blood leukocytes.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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RCAN3 Human Recombinant produced in E. coli is a single polypeptide chain containing 209 amino acids (56-241) and having a molecular mass of 23.5 kDa. RCAN3 is fused to 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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